SenCeeTox™

A novel predictive *in vitro* screen to assess Skin Sensitization

CeeTox, an innovator of predictive in-vitro *models, introduces* ***SenCeeTox***™*, a new method to identify and classify the skin sensitization potential of chemicals or finished products.*

The proprietary **SenCeeTox**™ method surpasses other *in vitro* methods that classify responses as merely positive *or* negative. Like the LLNA EC3 test, the **SenCeeTox**™ approach can differentiate specific degrees of response, from non-sensitizer, very weak, weak, moderate, strong up to extreme.

Compound Tested	CeeTox IVTI Sensitizer Class
Benzoic Acid	Non-Sensitizer
Salicylic acid	Very Weak
Vanillin	Very Weak
Glycerol	Very Weak
Phenyl Benzoate	Weak
Hydroxy Citronellal	Weak
Benzyl Cinnamate	Weak
Isoeugenol	Moderate
Diethylsulfate	Moderate
Propyl Gallate	Strong
2-Aminophenol	Strong
Phthalic Anhydride	Strong
Benzoquinone	Extreme
Dinitrobenzene	Extreme

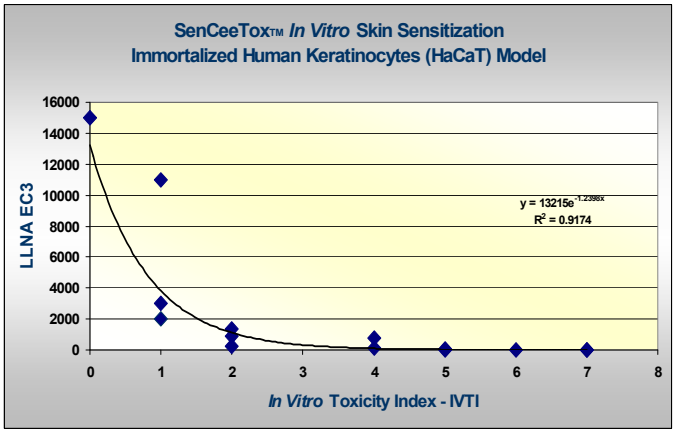
SenCeeTox™ data correlates to established LLNA EC3 values, however the unit cost to run the assay is significantly lower than either the LLNA or the GPMT. The **SenCeeTox**™ screen can reduce the need for animal testing, and provides an efficient means to test large numbers of chemicals quickly and cost-effectively.

SenCeeTox™ Unit Cost Comparison*

GPMT	LLNA EC3	SenCeeTox™
$8 - 11k	$8 - 11K	$3 - 5K

* based on 20 test articles

The **SenCeeTox**™ approach monitors the expression of up to 6 genes at multiple concentrations over time, and evaluates response in terms of magnitude, potency, timing, exposure, and viability to calculate the *in vitro toxicity index* (IVTI).



Standard exponential regression analysis compares the IVTI to LLNA EC3 for a wide range of chemicals, allowing the EC3 value to be estimated and enabling a predictive value to be obtained (SenCeeTox™ patent pending).

The **SenCeeTox**™ system is versatile and can assess virtually any test sample. When solubility is high, a standard culture system of immortalized human keratinocytes (HaCaT cells) is used as the test system. However, when finished products or chemicals with low solubility are evaluated, a 3D reconstructed human epidermis (RHE) model cultured at an air/liquid interface is used as the test system.

Example of RHE model/H&E Histology

CeeTox®
In vitro models to predict toxicity

For more information or to request a protocol for this innovative New service, please contact CeeTox at info@ceetox.com, call us at +1 269-353-5555 in the US, or visit www.ceetox.com.

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